



Cloud Security Assessment Report

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1. Objective

Purpose

Upwind's free cloud security assesment is a simple tool for rapidly identifying key risks, attacks paths, and critical posture findings in your cloud environment. The initial setup takes around 5 minutes, and can be done individually or with the help of an Upwind technical expert. In this document, we give a brief outline of what to expect from the cloud security assessment including time needed, expected findings, and setup needs.

Goals

- **Business Outcomes:** Present results in terms of tangible security
- **Ease of Deployment:** Showcase Upwind's low-friction, cloud-native setup
- **24 Hour Deliverables:** Define security insights deliverable within the first 24 hours of the assessment

2. Assessment Scope

Deployment Model:

- **(Basic) Agentless CSPM:** Cloud accounts scanned for misconfigurations, public exposure, and vulnerabilities
- **(Advanced) KSPM + Runtime (Phase 2):** Kubernetes misconfiguration and runtime exploit analysis.

Cloud Environments Covered:

- AWS, Azure, GCP (based on your capabilities).

Initial Assessment Duration:

- 12-24 hours

Assessment Deliverables:

- **Security Findings:** Actionable security insights.
- **Compliance Posture:** Against benchmarks (e.g., CIS).
- **Risk Prioritization:** Highlight critical vulnerabilities with potential exploit paths.

3. Security Insights and Deliverables

A) Cloud Security Posture Assessment (CSPM) – Basic Phase

Key Findings

- **Misconfigurations & Exposure:**
 - Identify publicly exposed assets with vulnerabilities.
 - Detect insecure S3 buckets and cloud storage permissions.
- **Critical Vulnerabilities:**
 - List CVEs with known exploits.
- **Data Insights:**
 - Detect generative AI platforms being used.
 - Identify suspicious CloudTrail activity.
- **Identity Insights:**
 - Enforcement of Principal of Least Privilege
 - Identifying accounts that have not been used in 180 days+
 - Identifying accounts with permissions that have never been used
 - Identifying System Accounts with unused permissions

Compliance Posture

- CIS Benchmark adherence summary.
- Compliance heatmap (if applicable).

24-Hour Deliverable Example:

- List of critical vulnerabilities with public exploits.
- List of exposed S3 buckets.
- Summary of suspicious CloudTrail activity.
- Identity insights to remediate immediately.

3. Security Insights and Deliverables

B) Kubernetes Security Posture Assessment (KSPM) – Advanced Phase

Key Findings

- **K8s Misconfigurations:**
 - Identify exposed clusters/nodes
 - Highlight excessive privileges or misconfigurations
- **Runtime Threats:**
 - Detect actively exploited vulnerabilities
 - Identify suspicious runtime behavior or dirty traffic
- **Runtime Exploit Funnel:**
 - Prioritize vulnerabilities based on exploitability
- **API Catalog:**
 - Discover exposed or misconfigured APIs

Advanced Deliverable Example:

- List of K8s misconfigurations.
- Runtime vulnerabilities with real exploit attempts.
- API catalog summary.

4. Compliance and Risk Prioritization

Frameworks Evaluated:

- CIS Benchmarks (CSPM).
- PCI, HIPAA, or NIST (optional extensions).

Risk Severity Scoring:

- Categorized by critical, high, medium, and low severity.

Attack Path Analysis:

- Map attack paths from misconfigurations and vulnerabilities to potential exploitation.

5. Next Steps and Recommendations

Immediate Remediation Suggestions:

- Actions to reduce public exposure.
- Patching guidance for critical CVEs.
- Misconfiguration fixes.

Ongoing Monitoring:

- Recommend continuous runtime and posture monitoring.

Final Output

This document provides a standardized Cloud Security Assessment format that clearly defines scope, deliverables, and actionable outcomes.

For an example of Cloud Security Assessment results and typical findings please visit the following link.

[Example Cloud Security Assessment](#)